

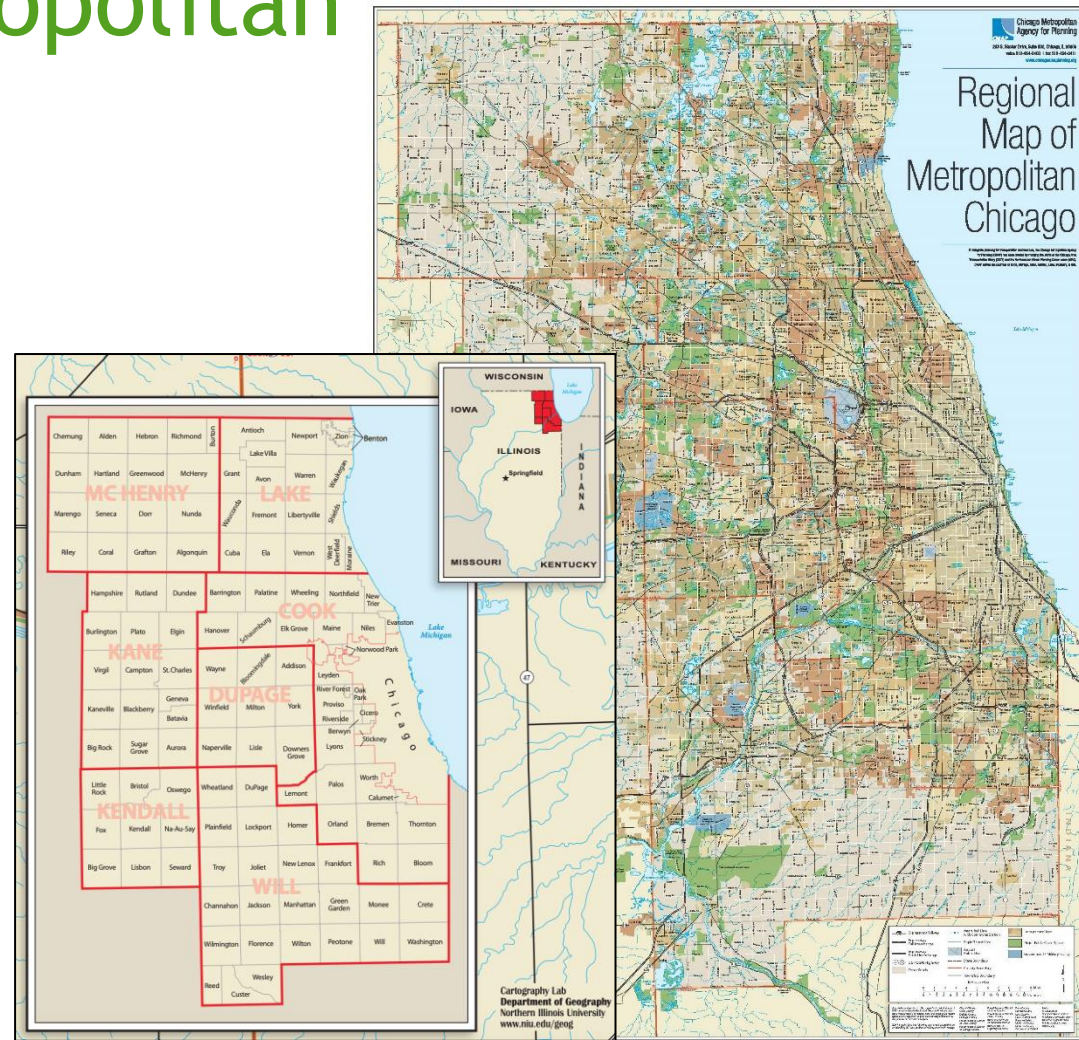
Municipal EV Readiness

Edith Makra, Director of Environmental Initiatives
Metropolitan Mayors Caucus



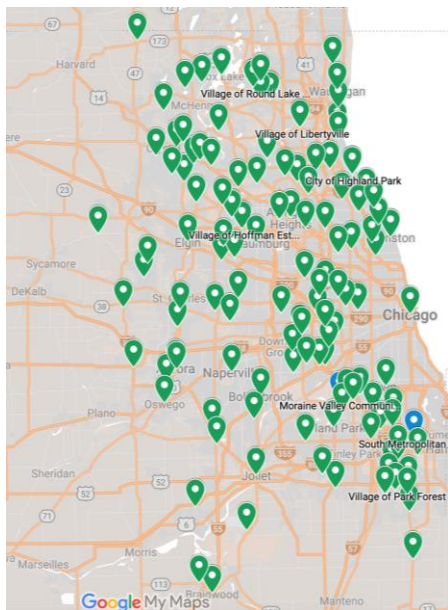
About the Metropolitan Mayors Caucus

- ▶ Regional Council of Government
- ▶ 275 municipal members
- ▶ Public policy & collaboration



Municipal Goals for Regional EV Success

- ▶ 140 municipalities support Greenest Region Compact goals
- ▶ Climate Action Plan for the Chicago Metropolitan Region



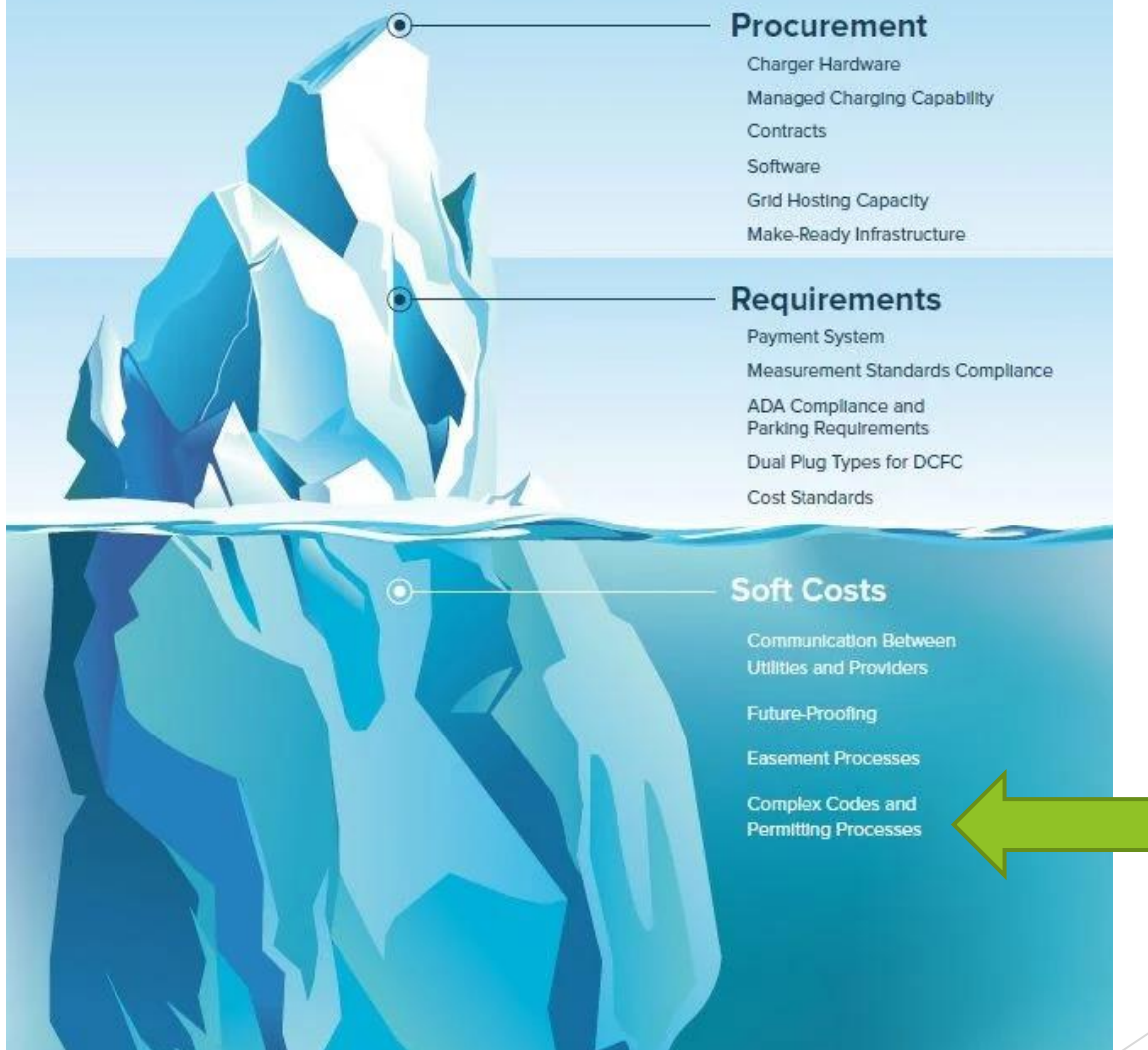
Local Government decisions impact EV charging infrastructure deployment

- ▶ If and where EVCS is sited
 - ▶ Land use planning
 - ▶ Zoning codes
- ▶ Is EVCS built safely
 - ▶ Public safety
 - ▶ Compliance with electrical codes
- ▶ Future of EVCS
 - ▶ Require EVCS and/or make ready
- ▶ Public Awareness
 - ▶ Communications
 - ▶ Municipal fleets

EVCS = EV charging station

MAJOR COST COMPONENTS OF EV CHARGING INFRASTRUCTURE

Procurement and compliance costs can be seen and quantified. It's the invisible soft costs that can sink a project.



Municipal
EV Readiness

Credit: RMI

Municipal Solar Readiness



- ▶ Streamline solar codes
 - ▶ Extensive checklist & point system
 - ▶ Work collaboratively
- ↑ 6000% in rooftop solar in Schaumburg

Credit Identifier	Credit Points	Permitting and Inspection Credits
PI-1	Req'd	Post an online checklist detailing the required permit(s), submittals, and steps of your community's permitting process for small rooftop solar PV. (Required for Bronze)
PI-2	10	Train permitting staff on best practices for permitting solar PV and/or solar and storage systems. Training must have occurred in the past five years. (Required for Silver).
PI-3	10	Train inspection staff on best practices for inspecting solar PV and/or solar and storage systems. Training must have occurred within the past five years. (Required for Silver).
PI-4	20	Post an online statement confirming a three-business day turnaround time for small rooftop solar PV. (Required for Gold)
PI-5	5	Distinguish between solar PV systems qualifying for streamlined and standard permit review.
PI-6	5	Require no more than one permit application form for a small rooftop solar PV system.
PI-7	10	Adopt a standard solar PV permit application form aligned with best practices (e.g. Solar ABCs).
PI-8	20	Provide an online process for solar PV permit submission and approval.
PI-9	20	Exempt or waive fees for residential solar PV permit applications.
PI-10	5	Demonstrate that residential permit fees for solar PV are \$500 or less.

Illinois
#1



EV Readiness Project



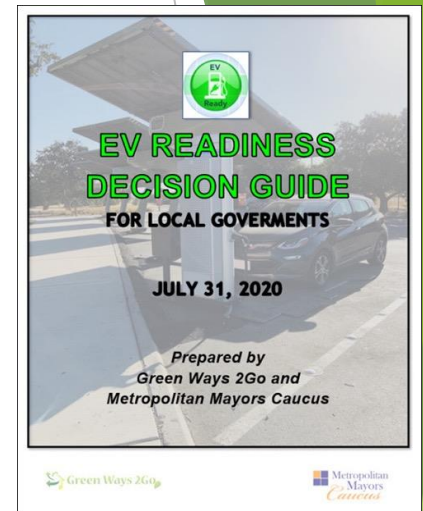
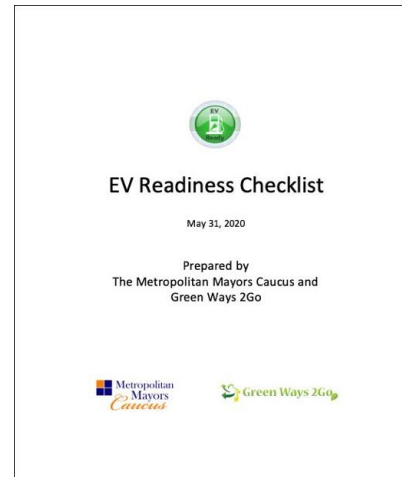
Listening Sessions



Checklist



Decision Guide



Checklist and guide available at:

mayorscaucus.org/initiatives/environment/becoming-ev-ready/

EV Readiness Checklist



Commit to EV Readiness
Zoning and Planning
Permitting
Inspection and Safety
Parking and Access
New Construction
EV Owner Rights
Municipal Fleets
Utility Engagement
Community Engagement
Market Development and Finance

Full checklist at: mayorscaucus.org/initiatives/environment/becoming-ev-ready/

EV Readiness Program



Support for checklist
action items

Commit to EV Readiness

Zoning and Planning

Permitting

Inspection and Safety

Parking and Access

New Construction

EV Owner Rights

Municipal Fleets

Utility Engagement

Community Engagement

Market Development and Finance

EV Ready Checklist

ZONING AND PLANNING

Clarify or establish new zoning rules to facilitate EVCS installation.

Define transportation electrification technologies (EVs, EVCSs) to be considered.

Review zoning requirements and remove restrictions that intentionally or unintentionally hinder EVCS installations.

Establish EVCS parking, signage, and wayfinding appearance rules.

Establish EVCS zoning siting criteria.

Establish zoning rules based on facility type, safety and risk.

Establish regulations for the commercial operation of EVCSs.

Explain rules for advertising on EVSE.

Clearly and concisely communicate EVCS zoning rules.

EV Ready Checklist: Example

PARKING AND ACCESS

Establish parking policies to balance constituent needs and support growth in EV readiness.

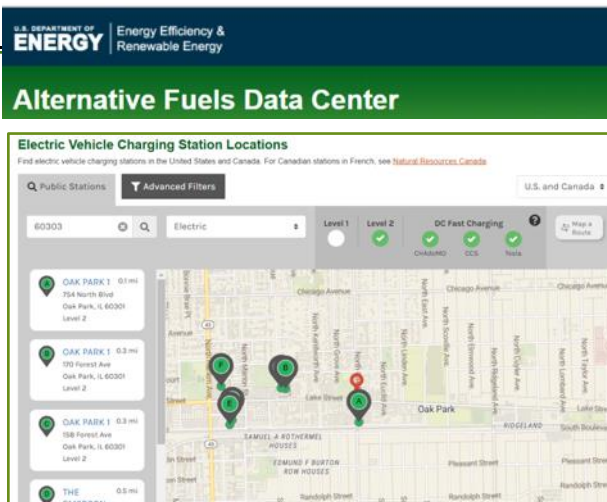
Require safe cord management, such as retractable cords to accommodate all EVs and avoid trip hazards.

Establish parking enforcement policies and procedures.

Identify and promote EVCs.

Provide wayfinding signage to direct EV drivers to EVCs.

Recommend registration of public EVCs on websites such as the Alternative Fuels Data Center to help EV drivers find EVCs.



EV Ready Checklist: Example

PERMITTING

Develop clear permitting processes for EVCSs.

Streamline permitting processes while meeting applicable codes (e.g. building, electrical, product safety) and important health and safety requirements.

[Advise applicants that Illinois statutes require installers to notify the utility about all EVCS projects.](#)

Adopt a STANDARD EVCS permit process primarily for Level 2 non-residential, workplace and multiple-unit dwelling installations.

Distinguish and define permitting requirements for *multiple-unit dwelling* and *non-residential* EVCSs.

Adopt a SPECIAL EVCS permit process for Level 3/DC Fast Chargers, and large, complex Level 2 installations.

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Do you already own or lease an electric vehicle? Register your vehicle with ComEd to help us assess the electric-load needs and improve the reliability of electric service in your community.

Residential



Business



EV Ready Checklist: Example

COMMUNITY ENGAGEMENT	COMMUNITY ENGAGEMENT
	Educate the public.
	Support public education and outreach on EVs and EVCs. Leverage local volunteer groups and working groups.
	Introduce the municipal EV fleet at community events or support other events that engage and educate residents on EVs.
	Host or support EV readiness workshops open to businesses, institutions, and local government staff explaining EVs, EVCs, opportunities and policies.
	Create an EV readiness landing page on local government's website with information on community's EV readiness goals and local resources for EV ready development.
	Communicate EV readiness commitment and actions to constituents.
	Promote access to EVCs to resident and visitors through apps, online resources, publications and other community marketing materials.



Going Green
Matters EV car
show in March 2020

EV Readiness Program

Next Steps



Support for checklist action items



Collaboration and Facilitation



Recognition



Regional planning

Statewide EV Charging Plan

Edith Makra, Director of Environmental Initiatives
Metropolitan Mayors Caucus



Recommending a Statewide EV Charging Plan

- ▶ **Biden-Harris Federal Highway EV Charging Action Plan will identify:**

“where we already have EV charging and where we need - or will need - more of it. It will focus on the needs of disadvantaged and rural communities, catalyze further private investment in EV charging, and ensure we’re smartly connecting to our electric grid”

- ▶ **A Framework for Transportation Electrification in Illinois (UIC) recommends action that “starts with a solid plan”:**

“A coordinated plan that takes into consideration the needs, obstacles and opportunities of each use case.”

A Statewide EV Charging Plan Should *Consider all Use Cases*

PUBLIC

Inter-Urban

**Intra-
Urban/Rural**

Transit

Fleets

PRIVATE

Residential

Multi-family

Commercial

Workplace

Fleets

Rideshare

A Statewide EV Charging Plan *Should consider EVCS Attributes*



EVCS = EV charging station

A Statewide EV Charging Plan *should consider transportation factors*

Average Daily Traffic volume

Distance of trips and range of distances traveled

Common origins and destinations

Economic and racial inequities

EV ownership EV charging penetration by location

Air quality

Resources for Statewide EV Charging Plan

Illinois Expertise

- ▶ Argonne National Lab
- ▶ IDOT
- ▶ University of Illinois
- ▶ CMAP
- ▶ Clean Cities Coalition

Funding and Technical Assistance

- ▶ **Bipartisan Infrastructure Law** creates a Joint Office of Energy and Transportation will provide funding and *technical assistance to states and localities*

Thank you

Metropolitan Mayors Caucus

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Full checklist at: mayorscaucus.org/initiatives/environment/becoming-ev-ready/

